

Title (en)  
ANTENNA UNIT AND ANTENNA ARRAY

Title (de)  
ANTENNENEINHEIT UND ANTENNENANORDNUNG

Title (fr)  
UNITÉ D'ANTENNE ET RÉSEAU D'ANTENNES

Publication  
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Application  
**EP 15909003 A 20151123**

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Abstract (en)  
The present invention discloses an antenna unit and an antenna array, and relates to the communications field. The antenna unit includes: a baseplate and k patches that are above the baseplate and parallel to the baseplate, where an (i+1) th patch is above an i th patch,  $k > 1$ , and  $i < k$ ; and each patch includes a first feed point, the first feed point is connected to a first feed port, and the first feed port is configured to output a first signal; or each patch includes a first feed point and a second feed point, the first feed point is connected to a first feed port, the second feed point is connected to a second feed port, the first feed port outputs a first signal, the second feed port outputs a second signal, frequencies of the first signal and the second signal are the same, and polarization directions of the first signal and the second signal are perpendicular to each other. The present invention resolves a problem that circuit implementation of adding a filter after a feed port to separate two signals is complex, so that a structure of an antenna unit is simplified.

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